

Abstract

5 **Microcomponent comprising a hermetically-sealed cavity and a plug, and method of producing one such microcomponent**

10 The microcavity (6) is delineated by a cover (4) which is formed on a
sacrificial layer and in which at least one hole (5) is formed for removal of the
sacrificial layer. A plug (8) covers the hole (5) and part of the cover (4) along
the periphery of the hole (5). The plug (8) is made from a material that can
undergo creep deformation and can be a polymerized material, in particular
selected from photoresists and polyimide, or glass, in particular selected from
phosphosilicate glasses. A sealing layer (9) is deposited on the plug (8) and
the cover (4) such as to seal the microcavity (6) hermetically. The hole (5)
15 has, for example, a dimension of less than 5 micrometers and is preferably
arranged on the highest part of the microcavity (6). The plug (8) can have a
thickness of between 2 and 6 micrometers.

(Figure 6)